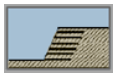
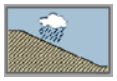
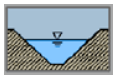
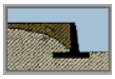
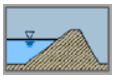
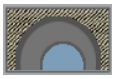
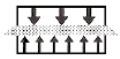
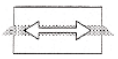
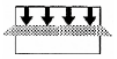
TECHNICAL DATASHEET
GEOFELT PE-R 500

Non woven Geotextile manufactured from polyester fibers, only needlepunched.
Suitable for the following applications:

- ☑ **EN 13249:2000+A1:2005** Characteristics required for use in the construction of roads and other trafficked areas.
- ☑  **EN 13251:2000+A1:2005** Characteristics required for use in earthworks, foundations and retaining structures.
- ☑  **EN 13253:2000+A1:2005** Characteristics required for use in erosion control works (coastal protection, bank revetments).
- ☑  **EN 13255:2000+A1:2005** Characteristics required for use in the construction of canals.
- ☑ **EN 13257:2000+A1:2005** Characteristics required for use in solid waste disposal.
- ☑ **EN 13250:2000+A1:2005** Characteristics required for use in the construction of railways.
- ☐  **EN 13252:2000+A1:2005** Characteristics required for use in drainage systems.
- ☑  **EN 13254:2000+A1:2005** Characteristics required for use in the construction of reservoirs and dams.
- ☐  **EN 13256:2000+A1:2005** Characteristics required for use in the construction of tunnels and underground structures.
- ☑ **EN 13265:2000+A1:2005** Characteristics required for use in liquid waste containment projects.

Functions:

F - R - F+R+S - F+S - R+S - F+R

☑  ☑  ☐  ☐ ☑

Characteristic	Test Method	Unit		Nominal Value	Tolerance
Mass per unit area	EN ISO 9864	g/m^2		500	-50
Thickness	EN ISO 9863-1	mm	2 kPa	2,40	-0,48
Wide-Width Tensile Strength	EN ISO 10319	kN/m	MD	3,00	-0,50
			CMD	3,00	-0,50
			DIAGONAL	NR	NR
Elongation	EN ISO 10319	%	MD	70,00	-20 / +20
			CMD	70,00	-20 / +20
			DIAGONAL	NR	NR
Energy Index	EN ISO 10319	kN/m		NR	NR
Static Puncture Resistance	EN ISO 12236	N		600	-200
Dynamic Perforation Test	EN ISO 13433	mm		18	+ 4
Pyramidal Puncture Resistance	NF G 38019	kN		NR	NR
Characteristic Opening Size	EN ISO 12956	µm		70	-30 / +30
Permeability normal to the Plane	EN ISO 11058	m/s		0,035	-0,010
Long Term Protection Efficiency	EN 13719	%	300 kPa	NR	NR
			600 kPa	NR	NR
			1200 kPa	NR	NR
Water Flow Capacity in the Plane	EN ISO 12958	m^2/s	20 kPa - i=1	NR	NR
			100 kPa - i=1	NR	NR
			200 kPa - i=1	NR	NR
Durability Prediction	To be covered within 1 day after installation. Predicted to be durable 5 years in natural soils with 4<ph<9 and soil temperature < 25 °C				
Oxidation Resistance	EN ISO 13438	Residual Strength		MD	NR
				CMD	NR
Chemical Resistance	EN 14030	Residual Strength		MD	NR
				CMD	NR
Microbiological Resistance	EN 12225	Residual Strength		MD	NR
				CMD	NR

MD : Machine Direction - CMD : Cross Machine Direction - NR : Not Required for application

TOLERANCE ON ROLL WIDTH: ± 3 cm. TOLERANCE ON ROLL LENGTH: ± 2% IF LENGTH ≤ 200 m, ± 1% IF LENGTH > 200 m.
STANDARD CORES: PAPER, DIAMETER INNER 81mm / OUTER 89mm ± 5%. TOLERANCE ON GROSS/NET WEIGHT ± 5%.
TECHNICAL DATA BASED ON STATISTIC ANALYSIS ON 95% CONFIDENCE LIMIT. PRESENT DATA SHEET CAN BE MODIFIED WITHOUT PRIOR NOTICE

TESTED BY kiwa

CE

0799 - CPR - 257

Quality Management according to UNI EN ISO 9001:2000

The values given are indicative and correspond to average results obtained in our laboratories and independent testing institutes. The right is reserved to make changes without notice at any time.
No. 536/CE Revision 00 dd. 10.02.2006